

Title (en)

INFRASTRUCTURE EQUIPMENT, COMMUNICATIONS DEVICES AND METHODS

Title (de)

INFRASTRUKTURAUSRÜSTUNG, KOMMUNIKATIONSVORRICHTUNGEN UND -VERFAHREN

Title (fr)

ÉQUIPEMENT, DISPOSITIFS ET PROCÉDÉS DE COMMUNICATION D'INFRASTRUCTURE

Publication

EP 4189926 A1 20230607 (EN)

Application

EP 21749599 A 20210726

Priority

- EP 20188004 A 20200727
- EP 2021070900 W 20210726

Abstract (en)

[origin: WO2022023289A1] An infrastructure equipment is provided. The infrastructure equipment forms part of a wireless communications network configured to receive data from a communications device via a communications channel between the infrastructure equipment and the communications device. The infrastructure equipment comprises transceiver circuitry to transmit signals to and to receive signals from the communications device, and controller circuitry. The controller circuitry is configured in combination with the transceiver circuitry to receive, from the communications device, a request for a resource allocation within which the communications device is to transmit data to the infrastructure equipment, to receive one or more reference symbols from the communications device, to estimate based on the received reference symbols, for each of a plurality of resource units, RUs, of the communications channel, a signal to interference and noise ratio, SINR, sequence of the communications channel, wherein each RU comprises time resources and frequency resources of the communications channel, and wherein each element of the SINR sequence is the SINR of one of the RUs of the communications channel, to perform a first transform followed by a second transform on the SINR sequence to produce a cepstrum of the SINR sequence, the second transform being an inverse of the first transform, and to encode and to transmit the cepstrum to the communications device.

IPC 8 full level

H04L 25/02 (2006.01); **H04L 1/00** (2006.01); **H04L 5/00** (2006.01)

CPC (source: EP US)

H04L 1/0026 (2013.01 - EP); **H04L 1/0029** (2013.01 - EP); **H04L 5/001** (2013.01 - US); **H04L 5/0012** (2013.01 - US); **H04L 5/0048** (2013.01 - EP); **H04L 5/006** (2013.01 - EP); **H04L 5/0094** (2013.01 - EP); **H04L 25/0218** (2013.01 - US); **H04L 25/022** (2013.01 - EP); **H04L 25/0224** (2013.01 - US); **H04L 27/0008** (2013.01 - EP); **H04L 1/0003** (2013.01 - EP); **H04L 1/0025** (2013.01 - EP); **H04L 5/001** (2013.01 - EP); **H04L 5/0012** (2013.01 - EP); **H04L 5/0023** (2013.01 - EP); **H04L 25/0218** (2013.01 - EP); **H04L 25/0224** (2013.01 - EP); **H04L 27/18** (2013.01 - EP); **H04L 27/34** (2013.01 - EP)

Citation (search report)

See references of WO 2022023289A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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